FACILITY NAME AND PERMIT NUMBER:

Thornburg Community STP - VA0029513

Form Approved 1/14/99 OMB Number 2040-0086

ВА	BASIC APPLICATION INFORMATION						
PAR	T A. BASIC APPL	ICATION INF	ORMATION FOR ALL	APPLICANTS:			
All tr	treatment works must complete questions A.1 through A.8 of this Basic Application Information packet.						
A.1.	Facility Information	1.					
	Facility name	Thornburg Co	mmunity STP				
	Mailing Address	10900 HCC D	rive, Fredericksburg, V	/a. 22408			
	Contact person	Doug Crooks					
	Title	Division Direc	tor Wastewater Treatm	nent	SENVIRGAD.		
	Telephone number	(540) 507-736	2	1447-1111-1	CENT OF CHAMENY		
	Facility Address	5225 Mud Tav	rern Road, Woodford, \	Va. 22580	NORTHERN		
A.2.	(not P.O. Box)  Applicant Informati	on. If the applica	ınt is different from the ab	ove, provide the following:	FEGIONAL OFFICE		
	Applicant name	Spotsylvania (	County Utilities		20		
	Mailing Address	600 Hudgins	Road, Fredericksburg, '	Va. 22408	MOODBRIDGE.		
	Contact person		tor Wastewater Treatm		_ E3 foculing  per cops  — foculing seven  — 7/08/2014		
	owner		tor (or both) of the treati	ment works? be directed to the facility or the applicant.	'I/0-8/ 2014		
A.3.	Existing Environme works (include state-	ental Permits. Pissued permits).	rovide the permit number	of any existing environmental permits tha	t have been issued to the treatment		
	NPDES VA00295	13		PSD			
A.4.	Collection System I	nformation. Pro	vide information on munic rmation on the type of col	Othercipalities and areas served by the facility. lection system (combined vs. separate) a	Provide the name and population of nd its ownership (municipal, private,		
	Name.		Population Served	Type of Collection System	Ownership		
			600	Separate	Municipal		
	Total pop	eulation served	600				

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A.5.	Inc	lian Country.	•						
	a.	Is the treatment works located in Indian	Country?						
		Yes N	0						
	b.	Does the treatment works discharge to a through) Indian Country?	receiving water that	is either in Indiar	Country or t	hat is upstre	am from	ı (and eventual	ly flows
		Yes	0						
	-4								
A.6.	ave	<ul> <li>iw. Indicate the design flow rate of the treerage daily flow rate and maximum daily f</li> </ul>	ow rate for each of the	ne last three year	s. Each year	's data musi	be base		
	pe	riod with the 12th month of "this year" occ	urring no more than t	hree months prio	r to this applic	cation subm	ittal.		
	a.	Design flow rate0.345 mg	d						
			Two Years Ago		Year		This Yea		
	b.	Annual average daily flow rate		<u>0.046</u>	l	<u>0.070</u> 🗸 _		0.099	g mgd
	C.	Maximum daily flow rate		0.135		<u>0.196</u> _			L mgd
Δ.7.	Cn	llection System. Indicate the type(s) of	collection system(s) i	ised by the treatm	nentinlant C	heck all tha	anniv	Also estimate t	he nercent
,,,,,	coi	ntribution (by miles) of each.	oneonon systemas (	isca by the treath	nent plant. O	neok ali tha	арріў.	Also estimate t	ne percent
	,	Separate sanitary sewer						100	· %
		Combined storm and sanitary sew	er			_			- %
	_	<u> </u>				<del></del>			-
A.8.	Dis	scharges and Other Disposal Methods.							
	a.	Does the treatment works discharge effl	uent to waters of the	U.S.?		✓	Yes		No
		If yes, list how many of each of the follow	ving types of dischar	ge points the trea	tment works	uses:			
		i. Discharges of treated effluent						1	
		ii. Discharges of untreated or partially	reated effluent					0	
		iii. Combined sewer overflow points						0	
		iv. Constructed emergency overflows (	orior to the headwork	s)				0	
		v. Other						0	
		<b>5</b>							
	b.	Does the treatment works discharge effli impoundments that do not have outlets to			)		Yes	✓	No
		If yes, provide the following for each sur	ace impoundment:				•		-
		Location:	-						
		Annual average daily volume discharged	to surface impound:	ment(s)				mgd	
		Is discharge continuous of	or inte	rmittent?					
		Daniel Hardward Company						,	
	C.	Does the treatment works land-apply tre					Yes		. No
		If yes, provide the following for each land Location:							
		Number of acres:	<u>,                                      </u>						<del></del>
		<del></del>			-				
		Annual average daily volume applied to			Mgd				
		Is land application contin	uous or	_ intermittent?					
	d.	Does the treatment works discharge or t	ansport treated or ur	ntreated wastewa	ter to another	г		,	
		treatment works?					Yes		No
		<u></u> _							

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1	f transport is by a party other than the applicant, provide:	
	ransporter name:	
	Aailing Address:	
	Contact person:	
	Title:	
	elephone number:	
ļ	or each treatment works that receives this discharge, provide the following:	
١	Name:	
ı	Mailing Address:	
	Contact person:	
	Contact person:	
-	Title:	
-	elephone number:	
	relephone number:  f known, provide the NPDES permit number of the treatment works that receives this discharge.	mg
	Felephone number:  If known, provide the NPDES permit number of the treatment works that receives this discharge.  Provide the average daily flow rate from the treatment works into the receiving facility.  Does the treatment works discharge or dispose of its wastewater in a manner not included in	mg
	Felephone number:  If known, provide the NPDES permit number of the treatment works that receives this discharge.  Provide the average daily flow rate from the treatment works into the receiving facility.  Does the treatment works discharge or dispose of its wastewater in a manner not included in	mg
- - - - - -	Title:  Telephone number:  If known, provide the NPDES permit number of the treatment works that receives this discharge.  Provide the average daily flow rate from the treatment works into the receiving facility.  Does the treatment works discharge or dispose of its wastewater in a manner not included in A.8.a through A.8.d above (e.g., underground percolation, well injection)?  Yes	_

•					
FAC	ILIT	Y NAME AND PERM	IIT NUMBER:		Form Approved 1/14/99 OMB Number 2040-0086
Thor	nbu	rg Community STF	P - VA0029513		ONE NUMBER 2040-0086
	NAS	TEWATER DISCHA	RGES:		
1	f yo	u answered "yes" to	o question A.8.a, complete quest		for each outfall (including bypass points) through
					n this section. If you answered "no" to question v Greater than or Equal to 0.1 mgd."
A.9.	De	scription of Outfall.			
	a.	Outfall number	001	<u> </u>	
	b.	Location	Thornburg		22580
			(City or town, if applicable) Spotsylvania		(Zip Code) Virginia
			(County) 38 08 08 N		(State) 77 30 05 W
			(Latitude)		(Longitude)
	C.	Distance from shore	e (if applicable)	N/A	ft.
	d.	Depth below surface	e (if applicable)	N/A	ft.
	e.	Average daily flow r	ate	0.099	
	f.	Does this outfall have periodic discharge?	ve either an intermittent or a	Yes	<b>√</b> No (go to A.9.g.)
		If yes, provide the fo	ollowing information:		
		Number of times pe	r year discharge occurs:		
		Average duration of	each discharge:		
		Average flow per di	scharge:		mgd mgd
		Months in which dis	charge occurs:		
	g.	ls outfall equipped v	vith a diffuser?	Yes	<b>√</b> No
A.10	. De	scription of Receivi	ng Waters.		
	a.	Name of receiving v	vater Unnamed Tribut	ary to Po River	
	b.	Name of watershed	(if known)	York River	
		United States Soil C	Conservation Service 14-digit water	ershed code (if known):	
	C.	Name of State Mana	agement/River Basin (if known):	<del></del>	
		United States Geold	ogical Survey 8-digit hydrologic ca	italoging unit code (if known)	:
	d.	Critical low flow of reacute	eceiving stream (if applicable):  cfs	chronic	cfs
	e.		ceiving stream at critical low flow	·	

**FACILITY NAME AND PERMIT NUMBER:** Form Approved 1/14/99 OMB Number 2040-0086 Thornburg Community STP - VA0029513 A.11. Description of Treatment. a. What levels of treatment are provided? Check all that apply. Secondary Primary Other. Describe: b. Indicate the following removal rates (as applicable): Design BOD\_removal or Design CBOD\_removal 95 Design SS removal Design P removal Design N removal Other What type of disinfection is used for the effluent from this outfall? If disinfection varies by season, please describe. If disinfection is by chlorination, is dechlorination used for this outfall? No d. Does the treatment plant have post aeration? No A.12. Effluent Testing Information. All Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three samples and must be no more than four and one-half years apart. Outfall number: 001 PARAMETER MAXIMUM DAILY VALUE AVERAGE DAILY VALUE Value Units Value Units Number of Samples 6.8 pH (Minimum) s.u. 8.0 pH (Maximum) 0.324 MGD 0.099 MGD 365 Flow Rate 10.2 С 8.1 С 365 Temperature (Winter) 25.0 C 11.3 С 365 Temperature (Summer) \* For pH please report a minimum and a maximum daily value **MAXIMUM DAILY POLLUTANT AVERAGE DAILY DISCHARGE** ANALYTICAL ML / MDL DISCHARGE METHOD Conc. Units Conc. Units Number of Samples CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS. <QL BIOCHEMICAL OXYGEN | BOD-5 mg/l mg/l 156 SM5210 B-11 2.0 mg/l DEMAND (Report one) CBOD-5 FECAL COLIFORM <QL MPN <QL MPN Colilert MPN 1 MPN 1.93 0.11 mg/l mg/l 156 SM2540 D-11 1.0 mg/l TOTAL SUSPENDED SOLIDS (TSS) END OF PART A. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

#### FACILITY NAME AND PERMIT NUMBER:

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i norr	ornburg Community STP - VAUU29513						
BA	SIC	APPLICATION INFORMATION					
PAR	ТВ	ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).					
All ap	plic	ants with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).					
B.1.	Inf	low and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.  <5,000 gpd					
	Brie	efly explain any steps underway or planned to minimize inflow and infiltration.					
	None						
	_						
B.2.	Thi	oographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries, is map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show entire area.)					
		The area surrounding the treatment plant, including all unit processes.					
	b.	The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.					
	C.	Each well where wastewater from the treatment plant is injected underground.					
	d.	Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.					
	e.	Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.					
	f.	If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.					
1	3. Process Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., chlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between treatment units. Include a brief narrative description of the diagram.						
B.4. (	Оре	ration/Maintenance Performed by Contractor(s).					
,	Are cont	any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a ractor?YesYo					
1	f ye page	s, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional es if necessary).					
1	Nam	e:					
ı	Maili	ng Address:					
		<del></del>					
-	Tele	phone Number:					
ı	Res	ponsibilities of Contractor:					
t	uncc treat	eduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or impleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the ment works has several different implementation schedules or is planning several improvements, submit separate responses to question or each. (If none, go to question B.6.)					
8	а.	List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.					
		None					
I	<b>)</b> .	Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.					
		YesNo					

**FACILITY NAME AND PERMIT NUMBER:** Form Approved 1/14/99 OMB Number 2040-0086 Thornburg Community STP - VA0029513 If the answer to B.5.b is "Yes," briefly describe, including new maximum daily inflow rate (if applicable). Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible. Schedule **Actual Completion** Implementation Stage MM / DD / YYYY MM / DD / YYYY - Begin construction \_\_/\_\_/\_\_\_ \_\_\_\_\_\_ - End construction \_/\_/\_\_ \_\_/\_\_/\_\_\_ - Begin discharge - Attain operational level \_/ \_\_\_/ \_\_\_ Have appropriate permits/clearances concerning other Federal/State requirements been obtained? \_Yes \_No Describe briefly: B.6. EFFLUENT TESTING DATA (GREATER THAN O.1 MGD ONLY). Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old. Outfall Number: 001 POLLUTANT MAXIMUM DAILY AVERAGE DAILY DISCHARGE DISCHARGE Units Conc. Units Number of ANALYTICAL ML / MDL Samples METHOD CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS. AMMONIA (as N) 0.97 0.06 156 SM184500-NH3F | 0.1 mg/l mg/l mg/l CHLORINE (TOTAL RESIDUAL, TRC) <QL <QL 1095 mg/l SM18 4500CL-G | 0.2 mg/l mg/l DISSOLVED OXYGEN 14.38 365 9.82 4500-OG N/A mg/l mg/l TOTAL KJELDAHL 1.0 9 2.30 mg/l mg/l SM18 4500-NH3 0.1 mg/L NITROGEN (TKN) NITRATE PLUS NITRITE 42.95 mg/l 5.13 12 SM18 4500NO3E mg/l 0.05 mg/l **NITROGEN** OIL and GREASE 3 <QL mg/l <QL mq/l EPA1664A 5.0 ma/l PHOSPHORUS (Total) 7.85 2.97 12 mg/l mg/l SM18 4500-P B 0.05 TOTAL DISSOLVED

## END OF PART B. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

mg/l

4

SM2540C

529

mg/l

626

SOLIDS (TDS)

OTHER

1 mg/l

FACILITY NAME AND F	PERMIT NUMBER:	Form Approved 1/14/99						
Thornburg Community STP - VA0029513			OMB Number 2040-0086					
BASIC APPLICA	BASIC APPLICATION INFORMATION							
PART C. CERTIFICA	PART C. CERTIFICATION							
applicants must complete have completed and are	e all applicable sections of Fo	orm 2A, as explained in the Apertification statement, application	rmine who is an officer for the purposes of this certification. All oplication Overview. Indicate below which parts of Form 2A you nts confirm that they have reviewed Form 2A and have completed					
indicate which parts of	Form 2A you have comple	ted and are submitting:						
Basic Applic	ation Information packet	Supplemental Application	nformation packet:					
		Part D (Expanded	Effluent Testing Data)					
		Part E (Toxicity To	esting: Biomonitoring Data)					
		Part F (Industrial	Jser Discharges and RCRA/CERCLA Wastes)					
		Part G (Combined	Sewer Systems)					
ALL APPLICANTS MUS	T COMPLETE THE FOLLO	WING CERTIFICATION.						
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.								
Name and official title	Edward Petrovitch - Dire	ctor Public Utilities						
Signature	John Hotel	<u> </u>						
Telephone number	(540) 507-7300							
Date signed	2/15/14							
Upon request of the permitting authority, you must submit any other information necessary to assess wastewater treatment practices at the treatment works or identify appropriate permitting requirements.								

SEND COMPLETED FORMS TO:

#### VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

#### SCREENING INFORMATION

This application is divided into sections. Sections A pertain to all applicants. The applicability of Sections B, C and D depend on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

١.	All app	licants must complete Section A (General Information).
2.	Will thi	is facility generate sewage sludge? X_Yes _No
	Will thi	is facility derive a material from sewage sludge?Yes _X_No
		answered Yes to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material I From Sewage Sludge).
3.	Will thi	is facility apply sewage sludge to the land?Yes _X_No
	Will se	wage sludge from this facility be applied to the land? _Yes _X_No
	If you a	answered No to both questions above, skip Section C.
	If you a	answered Yes to either, answer the following three questions:
	a.	Will the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions?  _Yes _No
	b.	Will sewage sludge from this facility be placed in a bag or other container for sale or give-away for application to the land?YesNo
	c.	Will sewage sludge from this facility be sent to another facility for treatment or blending?YesNo
	If you a	unswered No to all three, complete Section C (Land Application Of Bulk Sewage Sludge).
	If you a	inswered Yes to a, b or c, skip Section C.
l.	Do you	own or operate a surface disposal site?Yes _X_No
	If Yes,	complete Section D (Surface Disposal).

#### SECTION A. GENERAL INFORMATION

All applicants must complete this section.

1.	Facilit	ty Information.
	a.	Facility name: Thornburg Community STP
	b.	Contact person: Doug Crooks
		Title: Wastewater Treatment Division Director
		Phone: (540) <u>507-7362</u>
	c.	Mailing address: 10900 HCC Drive
		Street or P.O. Box:
		City or Town: Fredericksburg State: Va Zip: 22408
	d.	Facility location:
		Street or Route #: 5225 Mud Tavern Rd.
		County: Spotsylvania
		City or Town: Fredericksburg State: Va Zip: 22580
	e.	Is this facility a Class I sludge management facility?YesNo
	f.	Facility design flow rate: 0.345 mgd
	g.	Total population served: 600
	h.	Indicate the type of facility:
		X Publicly owned treatment works (POTW)
		Privately owned treatment works
		Federally owned treatment works
		Blending or treatment operation
		Surface disposal site
		Other (describe):
2.	Appli	cant Information. If the applicant is different from the above, provide the following:
	a.	Applicant name: Spotsylvania County Utilities Department
	b.	Mailing address:
	U.	Mailing address: Street or B.O. Poy: 600 Hudging Pd
		Street or P.O. Box: 600 Hudgins Rd.
		City or Town: Fredericksburg State: Va Zip: 22408  Contact person: Ed Petrovitch
	c.	Title: <u>Director Public Utilities</u>
		Title. Director Fublic Officies
		Phone: (540) 570-7302
	d.	Is the applicant the owner or operator (or both) of this facility?
		X owner X operator
	e.	Should correspondence regarding this permit be directed to the facility or the applicant? (Check one)
		facility X applicant
		,
3.	Permi	t Information.
	a.	Facility's VPDES permit number (if applicable): <u>VA0029513</u>
	b.	List on this form or an attachment, all other federal, state or local permits or construction approvals received
		or applied for that regulate this facility's sewage sludge management practices:
		Permit Number: Type of Permit:
		None
4	T., 1*	Country Designation of the Country o
4.		Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this

- 5. Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility:
  - a. Location of all sewage sludge management facilities, including locations where sewage sludge is generated, stored, treated, or disposed.
  - b. Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries.
- 6. Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction.

7.	, ,	Contractor Information. Are any operational or maintenance aspects of this facility related to sewage sludge					
		generation, treatment, use or disposal the responsibility of a contractor?Yes _XNo					
	If yes, provide the following for each contractor (attach additional pages	if necessary).					
	Name:						
	Mailing address:						
	Street or P.O. Box:						
	City or Town: State: Z	ip:					
	Phone: ( )						
	Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge:						
	If the contractor is responsible for the use and/or disposal of the sewage						
	be provided to the applicant and the respective obligations of the applications	ant and the contractor(s).					

8. Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old.

POLLUTANT	CONCENTRATION (mg/kg dry weight)	SAMPLE DATE	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
Arsenic	No Data Available			
Cadmium	7			
Chromium				
Copper				""
Lead				
Mercury				
Molybdenum	*			
Nickel				
Selenium	-			
Zinc				

nis application. Refer to the instructions to the parts of the application you have
al Derived from Sewage Sludge)
ıl Derived from Sewage

#### FACILITY NAME: Thornburg Community STP

#### **VPDES PERMIT NUMBER: VA0029513**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

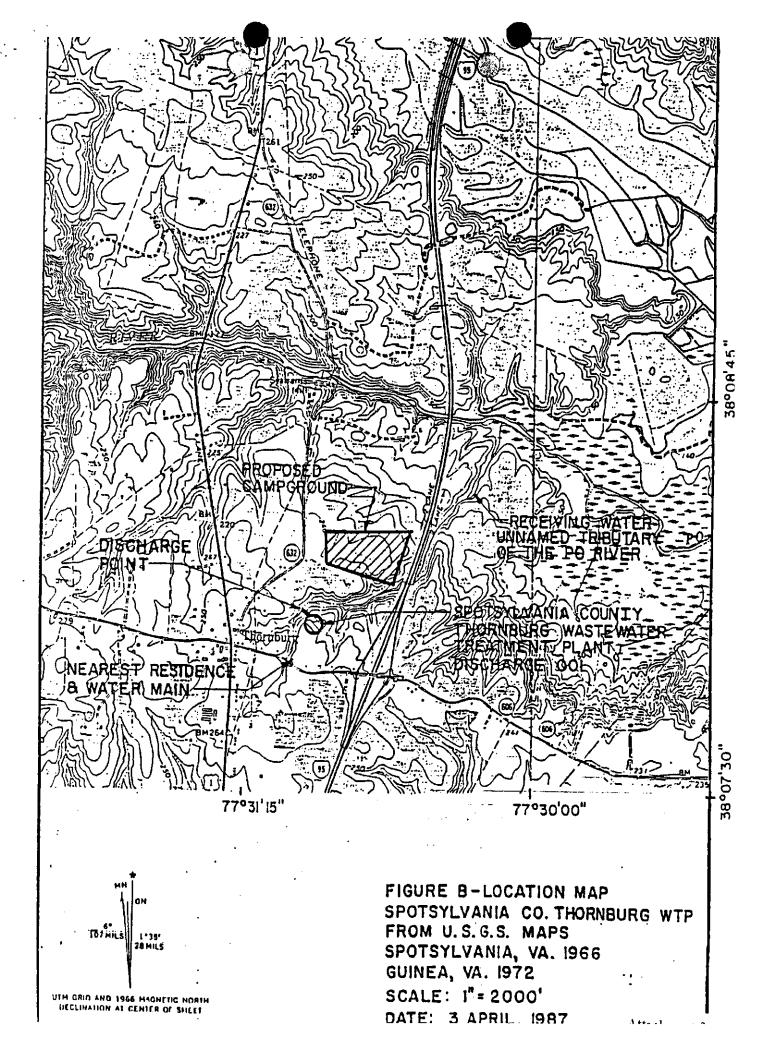
Name and official title

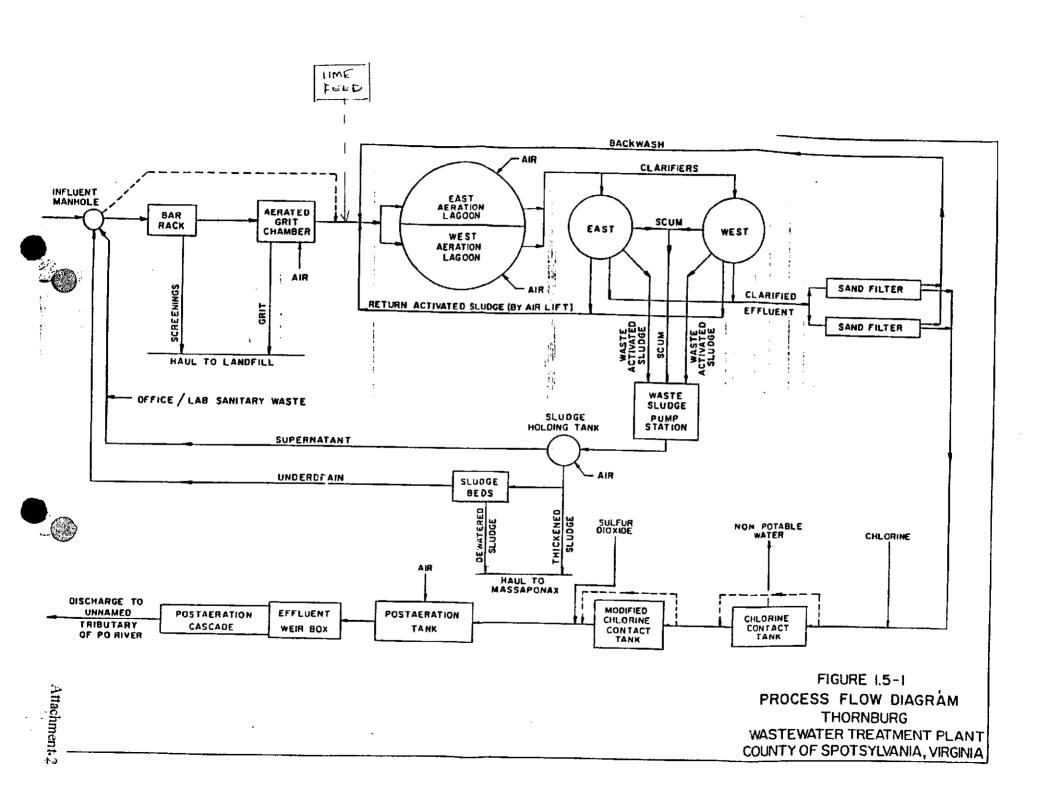
Signature \_\_\_\_\_

Date Signed

Telephone number

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.





FACILITY NAME: Thornburg Community STP

1.

2.

3.

4.

VPDES PERMIT NUMBER: VA0029513

## SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

	ant Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or sal, provide the following information for each facility from which sewage sludge is received. If you receive
	ge sludge from more than one facility, attach additional pages as necessary.
a.	Facility name:
b.	Contact Person:
	Title:
	Phone ( )
c.	Mailing address:
	Street or P.O. Box:
	City or Town: State: Zip:
d.	Facility Address:
	(not P.O. Box)
e.	Total dry metric tons per 365-day period received from this facility: dry metric tons
f.	Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site
	facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics:
	ment Provided at Your Facility.
a.	Which class of pathogen reduction is achieved for the sewage sludge at your facility?
L.	Class AClass BX_Neither or unknown
b.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge: Aerated sludge storage
	pantogons in so rage stadge, <u>Trotated stadge storiage</u>
c.	Which vector attraction reduction option is met for the sewage sludge at your facility?
	Option 1 (Minimum 38 percent reduction in volatile solids)
	Option 2 (Anaerobic process, with bench-scale demonstration)
	Option 3 (Aerobic process, with bench-scale demonstration)
	Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
	Option 5 (Aerobic processes plus raised temperature)
	Option 6 (Raise pH to 12 and retain at 11.5)
	Option 7 (75 percent solids with no unstabilized solids)
	Option 8 (90 percent solids with unstabilized solids)
_	X None or unknown
d.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce
	vector attraction properties of sewage sludge: <u>Aerated sludge storage</u>
e.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including
	blending, not identified in a - d above:
	ration of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and On
	ctor Attraction Reduction Options 1-8 (EQ Sludge).
	rage sludge from your facility does not meet all of these criteria, skip Question 4.)
a.	Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land:  dry metric tons
b.	Is sewage sludge subject to this section placed in bags or other containers for sale or give-away?

FACILITY NAME: Thornburg Community STP YesNo			VPDES PERMIT NUMBER: VA0029513	
5.	(Comple	if sewage sludge is covered in Question 4.)  Total dry metric tons per 365-day period of sewage s for sale or give-away for application to the land:	ludge placed in a bag or other container at your facility  dry metric tons otices that accompany the sewage sludge being sold or	
6.	(Comple does not	apply to sewage sludge sent directly to a land application or suin Questions 4 or 5. If you send sewage sludge to more than one Receiving facility name: FMC WWTF Facility contact: Doug Crooks Title: Wastewater Treatment Division Director Phone: (540) 507-7362 Mailing address: Street or P.O. Box: 600 Hudgins Rd. City or Town: Fredericksburg State: Total dry metric tons per 365-day period of sewage s metric tons	Va Zip: 22408 ludge provided to receiving facility: 84 dry lity's VPDES permit number as well as the numbers of	
	f.	Permit Number: Type of VA0068110  Does the receiving facility provide additional treatments		
		facility?Yes _X_No Which class of pathogen reduction is achieved for theClass AClass B Describe, on this form or another sheet of paper, any reduce pathogens in sewage sludge:Aerobic Digesti	Neither or unknown treatment processes used at the receiving facility to	
	g.	Does the receiving facility provide additional treatmes sewage sludge?Yes _X_No Which vector attraction reduction option is met for thOption 1 (Minimum 38 percent reduction in volatOption 2 (Anaerobic process, with bench-scale demOption 3 (Aerobic process, with bench-scale demOption 4 (Specific oxygen uptake rate for aerobicOption 5 (Aerobic processes plus raised temperatOption 6 (Raise pH to 12 and retain at 11.5)Option 7 (75 percent solids with no unstabilized solitNone unknown Describe, on this form or another sheet of paper, any reduce vector attraction properties of sewage sludge:	tile sewage sludge at the receiving facility?  tile solids)  emonstration)  onstration)  tally digested sludge)  ure)  solids)	
	h.	Does the receiving facility provide any additional tree  Yes X No  If yes, describe, on this form or another sheet of paper	atment or blending not identified in f or g above?  r, the treatment processes not identified in f or g above:	

EACH.	ITW NIA	ME. Thoughout Committee CTD VDDEC DEDMIT NUMBER, VA0020512
FACIL	HYNA. i.	ME: <u>Thornburg Community STP</u> VPDES PERMIT NUMBER: <u>VA0029513</u> If you answered yes to f., g or h above, attach a copy of any information you provide to the receiving facility
		to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G.
	j	Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away for application to the land?Yes X_No
	1.	If yes, provide a copy of all labels or notices that accompany the product being sold or given away.
	k.	Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally used for such purposes? _X Yes No. If no, provide description and specification on the vehicle used to transport the sewage sludge to the receiving facility.
		Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the
		week and the times of the day sewage sludge will be transported. Rt.606W to Rt. 1N, Rt. 1N to Rt.17E, Rt17E to Rt. 2W, Rt.2 W to Treatment facility. Monday thru Friday 0600 to 1600 hrs.
7.	(Comple	pplication of Bulk Sewage Sludge.  te Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions 4, 5 or
		ete Question 7.b, c & d only if you are responsible for land application of sewage sludge.)
	a.	Total dry metric tons per 365-day period of sewage sludge applied to all land application sites:dry metric tons
	<b>b</b> .	Do you identify all land application sites in Section C of this application?YesNo
		If no, submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in
		accordance with the instructions).
	c.	Are any land application sites located in States other than Virginia?YesNo
		If yes, describe, on this form or on another sheet of paper, how you notify the permitting authority for the States where the land application sites are located. Provide a copy of the notification.
	d.	Attach a copy of any information you provide to the owner or lease holder of the land application sites to comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples may be obtained in Appendix IV).
8.	Surface	Disposal.
0.		te Question 8 if sewage sludge from your facility is placed on a surface disposal site.)
	a.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal
		sites: dry metric tons
	b.	Do you own or operate all surface disposal sites to which you send sewage sludge for disposal? YesNo
		If no, answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage
		sludge to more than one surface disposal site, attach additional pages as necessary.
	c.	Site name or number:
	d.	Contact person:
		Title:
		Phone: ( ) Contact is:Site OwnerSite operator
	e.	Mailing address.
	<b>V</b> .	Street or P.O. Box:
		City or Town: State: Zip:
	f.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal
		site: dry metric tons

Type of Permit:

disposal site:
Permit Number:

### VPDES Permit Application Addendum

1. Entity to whom the permit is to be issued: Spotsylvania County
Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or n not be the facility or property owner.
2. Is this facility located within city or town boundaries? Yes No X
3. Provide the tax map parcel number for the land where the discharge is located. 63(1)B
4. For the facility to be covered by this permit, how many acres will be disturbed during the next
five years due to new construction activities? None
5. What is the design average effluent flow of this facility? 0.0345 MGD  For industrial facilities, provide the max. 30-day average production level, include units:
In addition to the design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? Yes No X If "Yes", please identify the other flow tiers (in MGD) or production levels:
Please consider the following questions for both the flow tiers and the production levels (if applicable): Do you plan to expand operations during the next five years? Is your facility's design flow considerably greater than your current flow
6. Nature of operations generating wastewater:  Municipal Wastewater
90 % of flow from domestic connections/sources
Number of private residences to be served by the treatment works:
10 % of flow from non-domestic connections/sources
7. <b>Mode of discharge</b> : X Continuous
3. Identify the characteristics of the receiving stream at the point just above the facility's discharge point:
Permanent stream, never dry
X Intermittent stream, usually flowing, sometimes dry
Ephemeral stream, wet-weather flow, often dry
Effluent-dependent stream, usually or always dry without effluent flow
Lake or pond at or below the discharge point
Other:
9. Approval Date(s):
O & M Manual Feb. 2010 Sludge/Solids Management Plan Feb. 2010
Have there been any changes in your operations or procedures since the above approval dates? Yes N

#### Westernik, Anna (DEQ)

From:

Doug Crooks [DCrooks@Spotsylvania.va.us]

Sent:

Thursday, July 31, 2014 12:38 PM

To:

Westernik, Anna (DEQ)

Subject:

RE: Thornburg Community STP Permit Applicatio 7.21.14

1. EColi – Period of May 7 -13, 2014

TDS - Period of May 7 -13, 2014

O&G - Period of May 19 -21, 2014

All other non-permit required parameters were tested for monthly. We used the data generated in February, March & April 2014 in preparation of the application.

2. Are you asking me to resubmit?

From: Westernik, Anna (DEQ) [mailto:Anna.Westernik@deq.virginia.gov]

Sent: Monday, July 28, 2014 11:17 AM

To: Doug Crooks

Subject: Thornburg Community STP Permit Applicatio 7.21.14

Doug,

I have reviewed the permit application. Could you please address the following:

- 1. Could you provide monitoring dates for parameters not sampled under the permit.
- 2. The average design flow on the VPDES Permit Application Addendum should be 0.345 MGD.

#### Anna

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